

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An activity monitor comprising:

a measurement unit including a plurality of motion sensors, operable to produce respective sensor signals indicative of motion experienced thereby; and

a processor for receiving connected to the measurement unit by a single output channel, the processor being configured to receive on an the single output channel of the measurement unit the sensor signals from the measurement unit and operable to process the signals;

wherein the measurement unit is operable configured to operate the single output channel discontinuously in time during output of each motion sensor output signal.

2. (Previously Presented) The activity monitor as claimed in claim 1, wherein the motion sensors are accelerometers.

3. (Previously Presented) The activity monitor as claimed in claim 1, wherein the motion sensors are arranged to be mutually orthogonal.

4. (Currently Amended) The activity monitor as claimed in claim 2 or 3, wherein the processor is operable to sample the single output channel of the measurement unit discontinuously in time.

Claim 5 (Canceled)

6. (Currently Amended) A method of monitoring activity using a plurality of motion sensors which are operable to produce respective sensor signals on a single channel for output to a processor, the sensor signals being indicative of motion experienced thereby, the method comprising the acts of:

operating the single channel discontinuously in time to
produce the respective sensor signals discontinuously in time;
monitoring the sensor signals provided on the single channel
discontinuously in time; and
processing the sensor signals.

7. (Currently Amended) The method as claimed in claim 6,
further comprising providing the sensor signals on ~~a~~the single
channel, wherein the monitoring act monitors in turn the sensor
signals on the single channel.

Claim 8 (Canceled)

9. (Currently Amended) An activity monitor comprising:
a measurement unit including a plurality of motion sensors,
operable to produce respective sensor signals indicative of motion
experienced thereby; and
a processor for receiving connected to the measurement unit by
a single output channel, the processor being configured to receive

the sensor signals from the measurement unit on the single output channel and operable to process the sensor signals in accordance with a predetermined method,

wherein the processor is operable further configured to sample the single output channel of the measurement unit discontinuously in time, and

wherein the measurement unit is configured to operate the single output channel discontinuously in time during output of each motion sensor output signal.

10. (Previously Presented) The activity monitor as claimed in claim 9, wherein the motion sensors are accelerometers.

11. (Previously Presented) The activity monitor as claimed in claim 9, wherein the motion sensors are arranged to be mutually orthogonal.

Claim 12 (Canceled)

13. (Currently Amended) The activity monitor of claim 9, wherein the measurement unit ~~has a single output channel and is~~ operable to output the sensor signals in turn on the single output channel.

14. (Currently Amended) The method of claim 6, wherein the processing act samples ~~a~~the single output channel of a measurement unit discontinuously in time, said single output channel including the sensor signals from the plurality of the motion sensors.

15. (Currently Amended) The method of claim 6, wherein the processing act intermittently samples ~~an output~~the single output channel of a measurement unit that outputs the sensor signals.

16. (Currently Amended) A method of monitoring activity using a plurality of motion sensors which are operable to produce respective sensor signals on a single channel for output to a processor, the sensor signals being indicative of motion experienced thereby, the method comprising the acts of:

operating the single channel discontinuously in time to
produce the respective sensor signals discontinuously in time;
intermittently monitoring the sensor signals; and
processing the sensor signals.

17. (Currently Amended) The method of claim 16, wherein the processing act intermittently samples ~~a~~ the single output channel of a measurement unit, said single output channel including the sensor signals from the plurality of the motion sensors.

18. (Currently Amended) An activity monitor comprising:
a measurement unit ~~configured to~~ having a plurality of motion sensors that produce sensor signals indicative of motion; and
a processor configured to intermittently monitor the sensor signals;

wherein the measurement unit is connected to the processor by
a single output channel, the sensor signals being provided to the
processor on the single output channel and the measurement unit
being configured to operate the single output channel

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discontinuously in time.

Claims 19-20 (Canceled)